

AUTOMOTIVE NEWS



WONDERS OF AUTO WORLD IN GRAND DISPLAY SATURDAY

Many New Features to Mark 20th Annual Passenger and Truck Shows in New York.

New York is accustomed to superlative things, but even cosmopolitan New York will be amazed, next Saturday afternoon, when it gets its first look at the passenger car division of the twentieth annual National Automobile Show, the greatest ever held, spread out in gleaming, colorful ranks on four full floors of Grand Central Palace.

Smartly artistic decorations will give the big show a fitting setting for the inspection by hundreds of New Yorkers and thousands of out-of-town visitors while simultaneously in the Eighth Coast Artillery Armory, at Jerome avenue, Kingsbridge road and 194th street, the biggest motor truck show in automotive history, throws open to the public the doors of the country's largest armory displaying 180,000 square feet of concrete floor covered with motor trucks and accessories.

Either one of these two shows which celebrate the twentieth anniversary of the industry—the truck show of seventy-five makes, or the passenger display of eighty-four makes—would by itself be larger than any preceding show; and in addition 250 markers of accessories will exhibit at both shows.

Besides new and graceful originalities of body and chassis design, will be seen at the Grand Central Palace, for the first time many new mechanical improvements and cunning efficiency devices perfected by automotive engineers to save the motoring public's time and money, and to make motoring a still greater convenience and pleasure. These improvements have been achieved in spite of the immense post-war demand for all makes of automobiles. The result is that there will be a type of car for every individual taste and pocketbook.

Small Changes Attract.
In looking over the new productions one is impressed with the great attention to the smaller items of equipment, to such things as doors and door handles, radiators, instruments and fenders. Changes of this sort are not costly and are made much more easily than one involving the making of new expensive die, by the entire body of the car. A change in the body has been attacked and there is a bewildering array of "conceptions."

For the most part the designers have adhered to the basic lines shown last year in such numbers. This body has a high hood, usually with an angle at each side, the line of the angle meeting the top edge of the body. Hoods have more louvers, windshield supports are more substantial and shields are much in evidence and a few concerns have taken up small built-in side pieces attached to the windshield. This form will undoubtedly be standard equipment in a few years.

The Palace will surpass its own record as to pleasing novelties of decoration. Garlands of smilax and greens will bring the scheme into harmony with the holiday feeling and suggest the approach of spring. At the entrance the incoming's first glimpse of the interior will be through a frame of bay trees and floral masses.

Place Splendidly Decorated.
Each exhibitor's display will be enclosed by a white railing supported by white posts capped with brown. The big windows that light each of the four floors are curtained with especially designed fabrics. But the "piece de resistance" of setting will be the tapestry panels, set at regular intervals along the walls. They depict fanciful scenes of English country life, from the Englishman's point of view. They bear coats-of-arms, and at the top is imprinted the name of the nearest exhibitor.

The makes of cars exhibited are: Hudson, Chrysler, Packard, Buick, American Beauty, Anderson, Apperson, Auburn, Biddle, Briscoe, Buick, Cadillac, Case, Chalmers, Chandler, Chevrolet, Cole, Columbia, Comet, Continental, Crosley, Dayton, DeSoto, Detroit-Electric, Dixie-Flyer, Dodge Brothers, Dorris, Dort, Elcar, Elgin, Fiat, Ferguson, Franklin, Grant, Haynes, Hollier, Hudson, Humble, Jackson, Jordan, Kissel, Kline, Kline, Kline, Lexington, Liberty, McFarlane, Mahan, Marmon, Maxwell, Mercer, Metz, Milburn Electric, Mitchell, R. & V. Motor, Moon, Nash, National, Oldsmobile, Oldsmobile, Pontiac, Packard, Owen-Magnette, Packard, Paige, Patterson, Peerless, Pierce-Arrow, Premier, Roamer, Saxon, Savers, Scripps-Booth, Standard, Stanley, Stearns-Knight, Stephens, Studebaker, Duryea, Studebaker, Stutz, Valle, Westcott, Willys-Knight, Winton.

Has Social Aspect.
Show week will be sprinkled generously with social affairs and important business conferences between automobile men and members and representatives of the automotive industry. On Monday, January 5, the Rubber Association of America will dine at the Waldorf Hotel. The annual dinner of the National Automobile Chamber of Commerce will be given on Tuesday, January 6, at 7 o'clock, at Hotel Commodore.

Wednesday, January 7, will be a busy day with a luncheon and showing of the National Automobile Show Managers' Association at 12:30; a luncheon of the professional section of the Society of Automotive Engineers at 1 o'clock; the twelfth annual banquet of the Motor and Accessory Manufacturers' Association in the grand ballroom of the Hotel Commodore at 7:30; and carnival night of the Society of Automotive Engineers at 9 o'clock at Hotel Astor that night at 7.

These organizations will also hold numerous business and technical sessions during Automobile Show Week.

The truck display floor at the Eighth Coast Artillery Armory is so large that workmen who laid the concrete floor for the show rode from one part of the armory to the other on bicycles.

About Your Automobile

By JULIAN CHASE

Formerly Editor of "Motor," "Horseless Age," etc.

How many miles do you get from a gallon of gasoline? If you fill up the tank, run 100 or 200 miles with only a couple of stops, and then figure it out, you get one result. If you measure the quantity used in a month or a week and divide it into the number of miles run up on the total register of your odometer, you get a result that is quite different. Nine times out of ten, after the latter kind of test, your supposedly fine average

longer than you should with the choke valve closed or too far over on the side marked "gas" or "cold" or "start" or something of the kind? Of course, with the kind of stuff we get for gasoline today, it is necessary to have a good rich mixture to start on. But when she begins to turn over in good shape, it's time to swing that little lever or thumb button on the cowl over to the running position and to get it just as far over to the "rich" or "warm" or "run" side as is possible, without causing spitting and back firing, and keep it there. If you don't

in order that a sufficient quantity will be vaporized with the gas drawn in through the carburetor to form an explosive mixture. Condensation takes place as the gas passes from the mixing chamber of the carburetor to the combustion chamber of the engine with the result that an over-rich mixture must be formed previously. It's like running with the choke valve closed, and it has the same effect on the miles per gallon average.

Do Your Brakes Drag?
Do you throw off the emergency completely after each stop? No doubt you think you do, but it's a good idea to give the lever an extra push once in a while to be sure that the brakes are entirely free. A little drag on them will make a lot of difference in the power required to drive the car. It's like going up hill all the time. It's not good for the brakes and it eats up gas. Be particularly careful about this just after your brakes have been re-lined.

Carburetor Adjustment.
Of course, the adjustment of the carburetor is the most important factor in obtaining gasoline economy. Adjusting a carburetor is a job for an expert, and it pays to have a real expert do it. Nowadays it is not required often. Carburetors stay adjusted better than they did, but even so you want to be sure that yours is right, and if you are not qualified to do the adjusting yourself, have someone who is look at it if there is evidence in the form of excessive gasoline consumption, that all is not as it should be. It is safe to say, however, that if you do not want to encourage tinkering—that most cars would not only

NEW YEAR TO SHATTER RECORD IN AUTOMOBILE PRODUCTION

May Reach 2,000,000 Passenger Cars and 300,000 Trucks—War Lessons to Aid.

The passing of 1919 will have recorded more changes in the automotive field vitally affecting its growth, its financial status and the quality of its products than has been experienced at any time since the beginning of the industry.

Just before the close of the war, automobile manufacturing was fast approaching a standstill. The signing of the armistice, November 11, 1918, put the brakes on what would soon have been a complete shutdown of every plant producing automobiles. With the gradual completion and elimination of war contracts in the various automobile plants, attention was again turned to producing cars which were discontinued, or on which production had been curtailed during the war period. At the same time, practically all manufacturers were planning on new models to offer the public for the year 1920.

The production of cars in the year 1919, with the rapidly pyramiding demand for cars, on the part of the public, placed a tremendous load on the manufacturers. They not only had to face a shortage of materials, but a growing unrest on the part of labor made it exceedingly difficult to get producing organization lined up.

The year 1919 has done much to power to the automobile and truck assemblers the value and importance of having as their sources of supply, reliable and progressive unit makers. On every hand it was demonstrated that to increase car production was a simple matter, but that to increase the production of units was a task heretofore not appreciated. Unit manufacturers were compelled to purchase additional machinery and to expand their plants, while they were at the same time finishing up war contracts. Remarkable strides have been made by the motor and accessory manufacturers in helping the car and truck manufacturers to get back into business.

Auto for Every Fifteen Persons.
In the year 1919 there will probably be an automobile for about every fifteen persons in the United States. There will be nearly eight million power driven vehicles, including both passenger and commercial cars, in actual use by the dawn of the New Year. It is likely that the production of passenger cars for 1920 will near the 2,000,000 mark, while the output of commercial vehicles will be about 300,000.

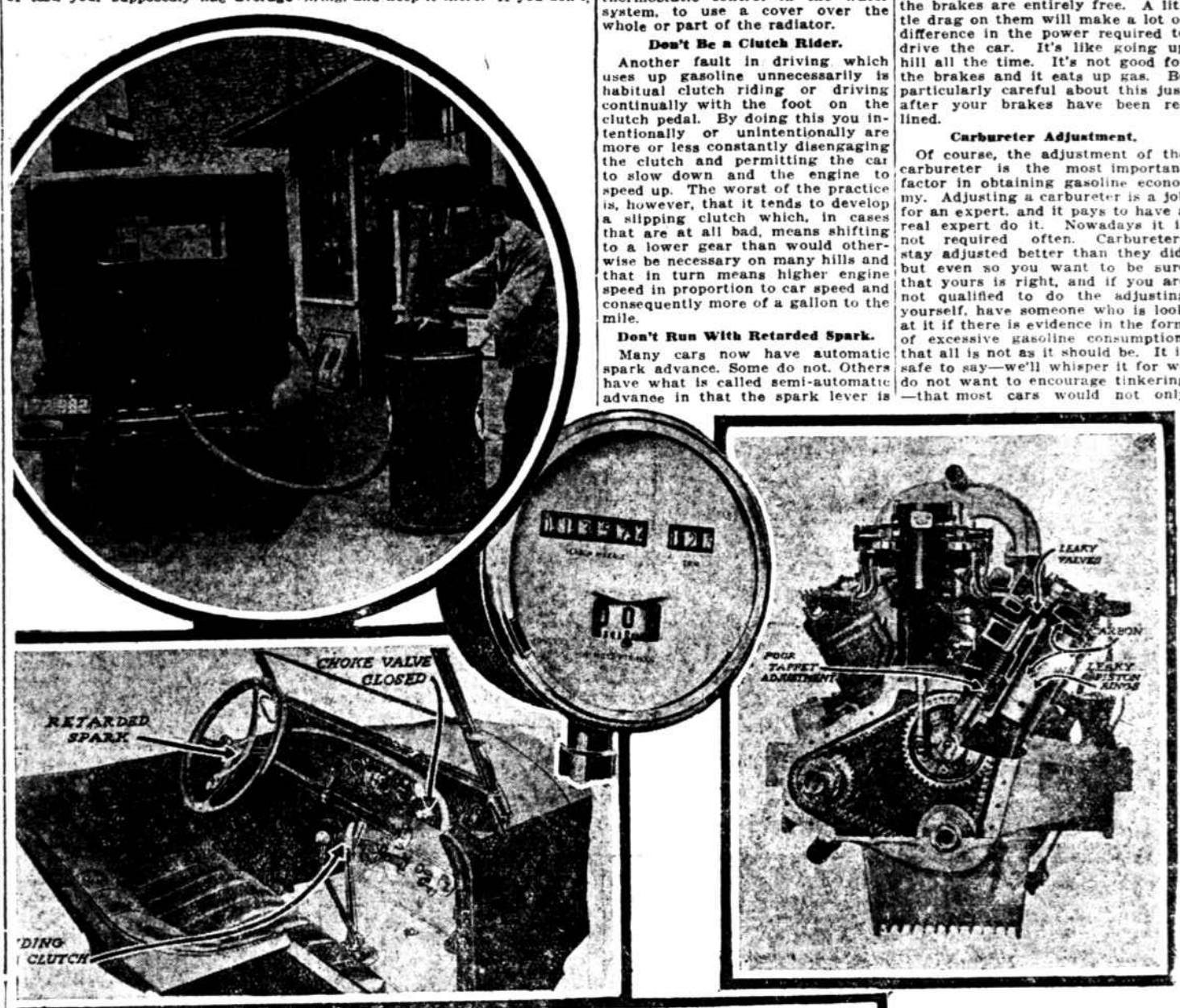
One of the marked effects of the war has been to standardize automotive power and transmission units. More consideration has been given the designing of motors to handle low grade fuels than ever before. On the whole, the quality of cars and trucks for 1920 will be much superior to those

produced in the past. While it is true that the prices will be higher, this is not due to increased cost of material alone.

Better parts of more costly design will be used throughout. The tremendous demand for automobiles, following a shutdown of the industry during the war, showed that the unit manufacturer is really the greatest business ally of the car builder. Had the majority of car manufacturers been producing their own units, instead of purchasing them from highly specialized organizations, car production would today have been at least a year behind. Severe losses would have been sustained by many car and truck producers were it not for the balancing effect that the motor and accessory manufacturers were able to give them in the way of changing schedules, both increasing and decreasing, according to the rapidly changing situation.

Due to the fact that the motor and accessory manufacturers had a number of outlets for their parts, they were able to lend the greatest co-operation to the automobile producers—co-operation which was very valuable and which vitally affected the continuance of many organizations. The automobile industry has learned that it must figure further ahead for its

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determined by an ideal performance is all shot to pieces, as it were, and you find that you are really getting in miles per gallon is much less than it ought to be.

Speed Is Expensive.
One thing is high speed. Fast running, that is, traveling at thirty miles or more an hour, is a very expensive thing. The gasoline indicator in the tank will tell you this. There is only one way in which to find out what your real miles per gallon average is, and that is to keep track of all gasoline poured into the tank and of all miles turned by the tires. Do that, not for a day, but for a month, and you may learn something that will do you good.

Close the Choke Valve.
As we have started with the gasoline consumers of car operation, let's take another one. Do you ever run

stand a finer adjustment of their carburetors, but would run much better for it. Phew! how some of the many run misures that we run up to and overtake in a day's journey do smell! That's good gasoline going to waste.

Look After the Leaks.
And here's something so stupidly simple and so simply stupid that you never thought of it in this connection. How can you get the most miles out of the gasoline you buy if you let a lot of it drip away through leaks in the piping and at the carburetor? Some cars are run only on Saturdays and Sundays. During the rest of the week a good deal of the gasoline in their tanks drips out onto the garage floor. That which is lost costs as much as that which gets to the engine, but it doesn't get you anywhere.

A retarded spark causes overheating, stimulates carbon formation and indirectly decreases the economy of the car in other ways. Keep the spark advanced.

Faults in the Car Itself.
So much for driving and car operation. Let's look now at the condition of the car itself as it affects the possible miles that are poured into it compared with the actual miles got out.

We can say first, that anything which tends to reduce the power of the motor, or its ability to deliver its full power, at the same time reduces its thermal efficiency, as the engineers call it, its capacity for turning the heat units in the gasoline into work.

Carbon in the cylinders and on the pistons causes knocking and makes it impossible to obtain the engine's full power with the result that more gas is consumed for the same work, and a wider opened throttle used for a given or desired speed. Both of these mean more gasoline for each mile traveled.

Piston Rings, Valves and Lost Compression.
Leaky piston rings and leaky valves mean lost compression and consequently reduced power with increased gasoline consumption for the same results in car speed and hill climbing. If, with good compression, your car will take a certain grade on high at twenty miles per hour at half throttle and with poor compression she needs full throttle to do the same trick, the gasoline bill goes up while the mileage remains the same. Good rings and tight valves pay for themselves in miles per gallon of gasoline.

BUREAU CHIEF'S CAREER VARIED

L. M. Estabrook Advanced From Farm Laborer to Present Position.

"That the motor truck rendered invaluable service for municipalities during the recent coal strike was only another example of the unusual dependability, economy and adaptability of the motor truck in meeting unusual transportation demands," says G. A. Kissel, president of the Kissel Motor Car Co.

"In the Middle West quite a few of our distributors wrote us that the motor truck took the place of the railroad locomotives in helping move freight cars loaded with coal from nearby mines and shipping points up to the yards of the local electric light, gas and water pumping stations, to provide heat to the municipal and industrial buildings."

"I, myself, noticed in the daily papers at the time, how when different freight cars refused to move into the breach and kept up the supply of the precious fuel at a time when no other motive power was available."

Burleson Shows Value Of Parcel Post Trucks

"According to Postmaster General Burleson, the use of more motor trucks on parcels post routes will prove an excellent means of reducing living costs in the cities," says W. L. Kissel, secretary and treasurer of the Kissel Motor Car Company.

"Mr. Burleson has not only urged Congress to provide the necessary equipment for such motor parcels post expansion, but claims that they will, in addition, show a profit. Nine such routes between Washington and Philadelphia have been established during 1919."

"Without a doubt this recognition by a prominent government official is a result of the adaptability and the way the motor truck has helped the government meet the transportation requirements at a time when the country's transportation equipment proved unequal to the demands made upon it."

Cinders Improve Garage Floor.
The average car owner may not know that a layer of cinders six inches thick makes a very satisfactory floor for the home garage. The cinders should be thoroughly tamped down, a hose being used to wet them during the operation. This floor absorbs grease, oil or gasoline that may leak out of the mechanism and it is, moreover, practically indestructible.

It is With Pleasure

We announce our admission to membership in the Association of Army and Navy Stores, Inc., as their exclusive repair shop for electrical apparatus and appliances pertaining to automobile lighting, starting and ignition systems, generators, storage batteries, etc.

We display the association's blue and gold crest on our window, indicating our appointment.

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Wishing You A Happy and Prosperous New Year

The Washington-Cadillac Company

Paul J. Smith
President